

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632387

Luminaire Tested: GWS-SA2C-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

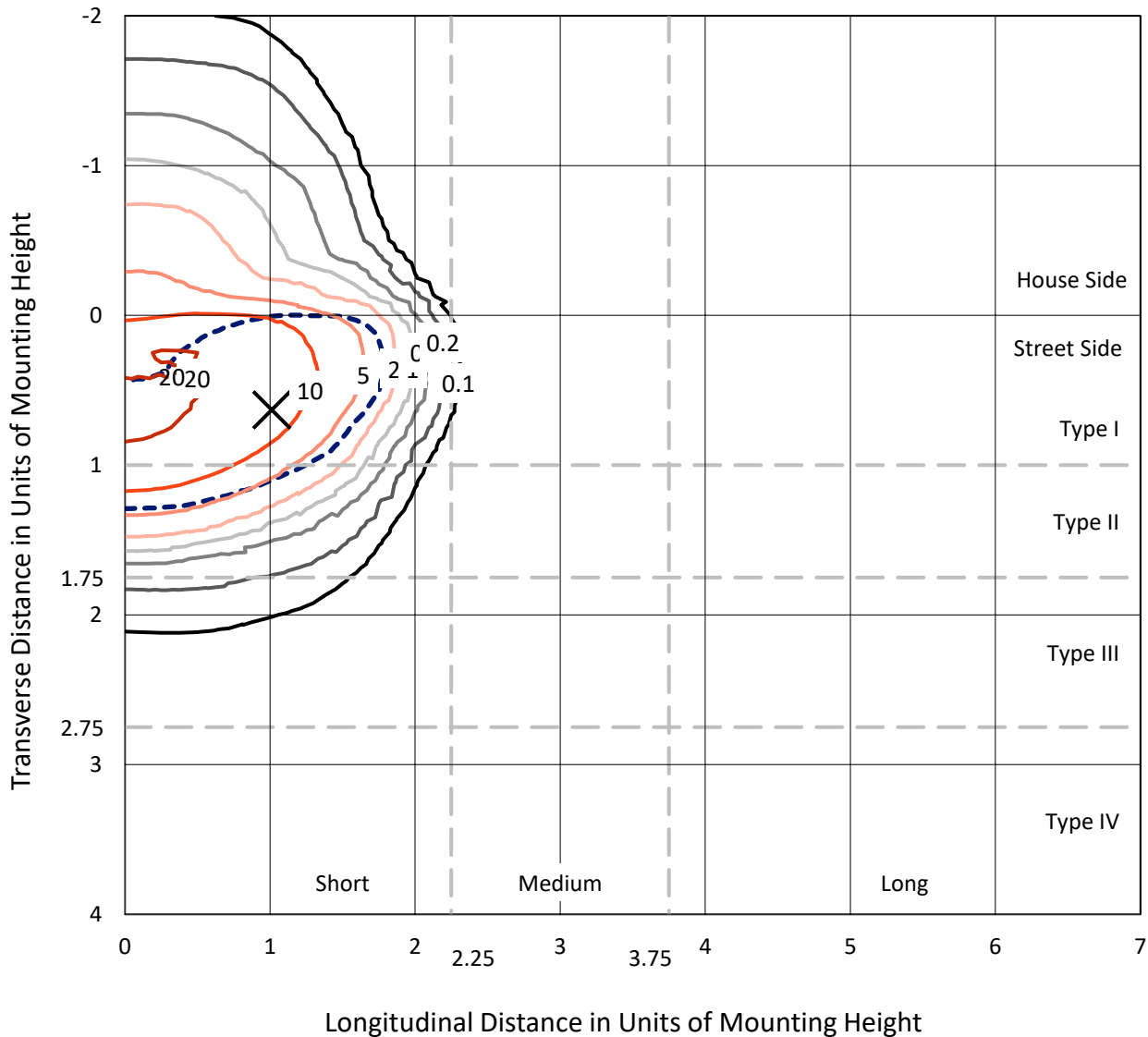
Lumens per Lamp: N/A  
Luminaire Lumens: 6346.4 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

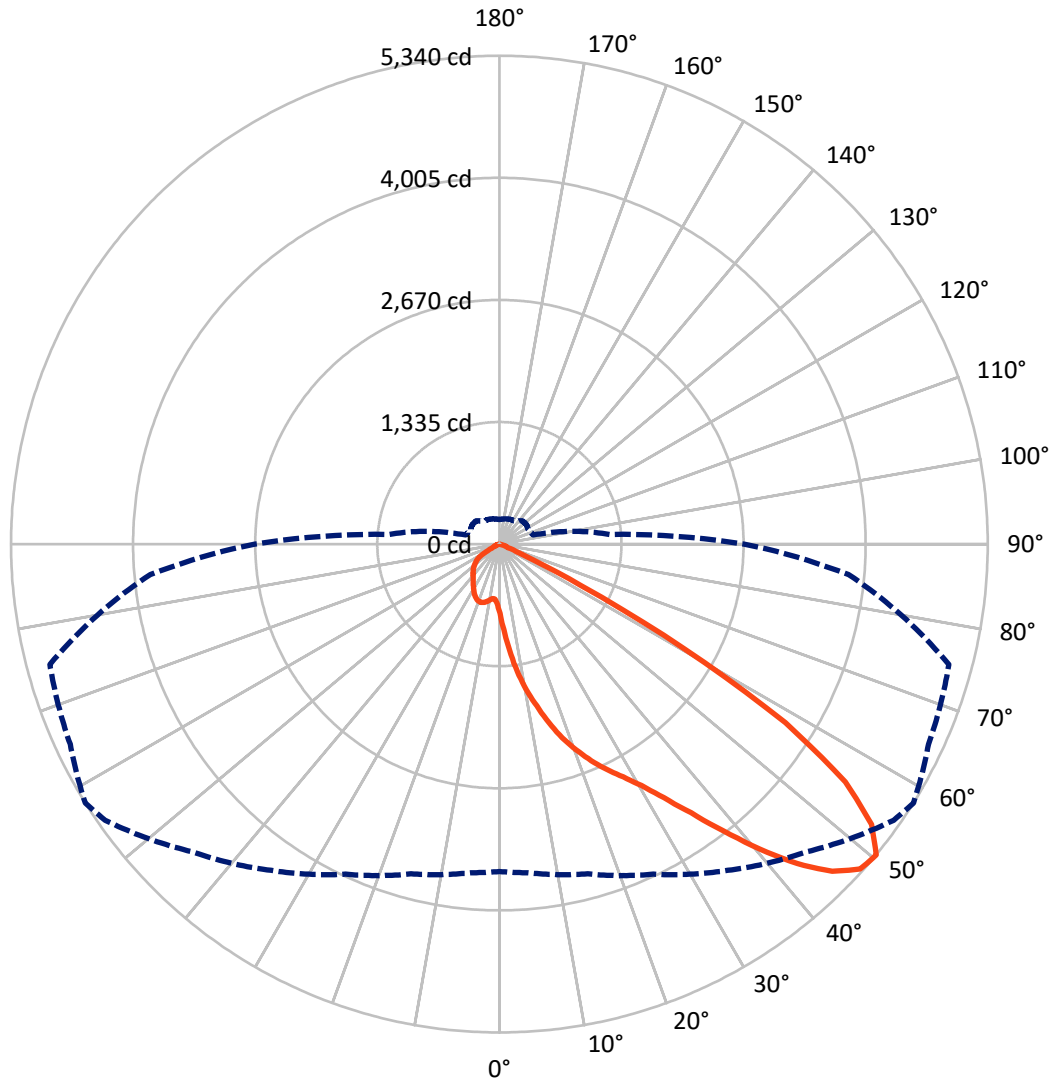
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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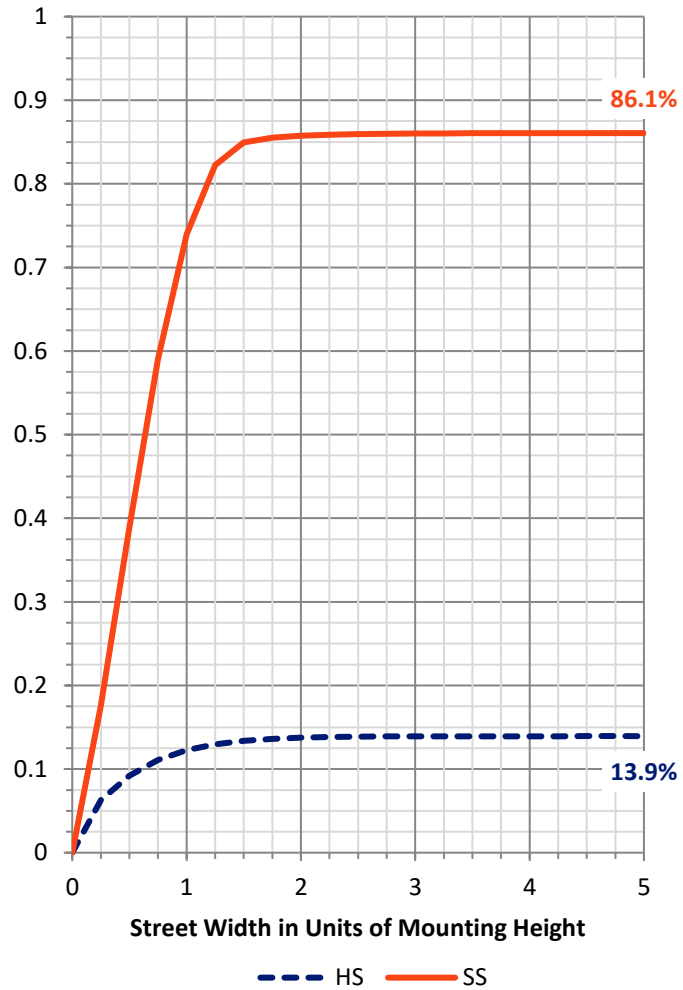
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 888.9    | 0.0    | 888.9  |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 5457.5   | 0.0    | 5457.5 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 6346.4   | 0.0    | 6346.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.9   | 1.5       |
| 10°-20°   | 371.8  | 5.9       |
| 20°-30°   | 752.3  | 11.9      |
| 30°-40°   | 1330.9 | 21.0      |
| 40°-50°   | 1940.2 | 30.6      |
| 50°-60°   | 1555.1 | 24.5      |
| 60°-70°   | 280.2  | 4.4       |
| 70°-80°   | 22.1   | 0.3       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6346.4 | 100.0     |
| 0°-180°   | 6346.4 | 100.0     |

**Coefficient of Utilization**



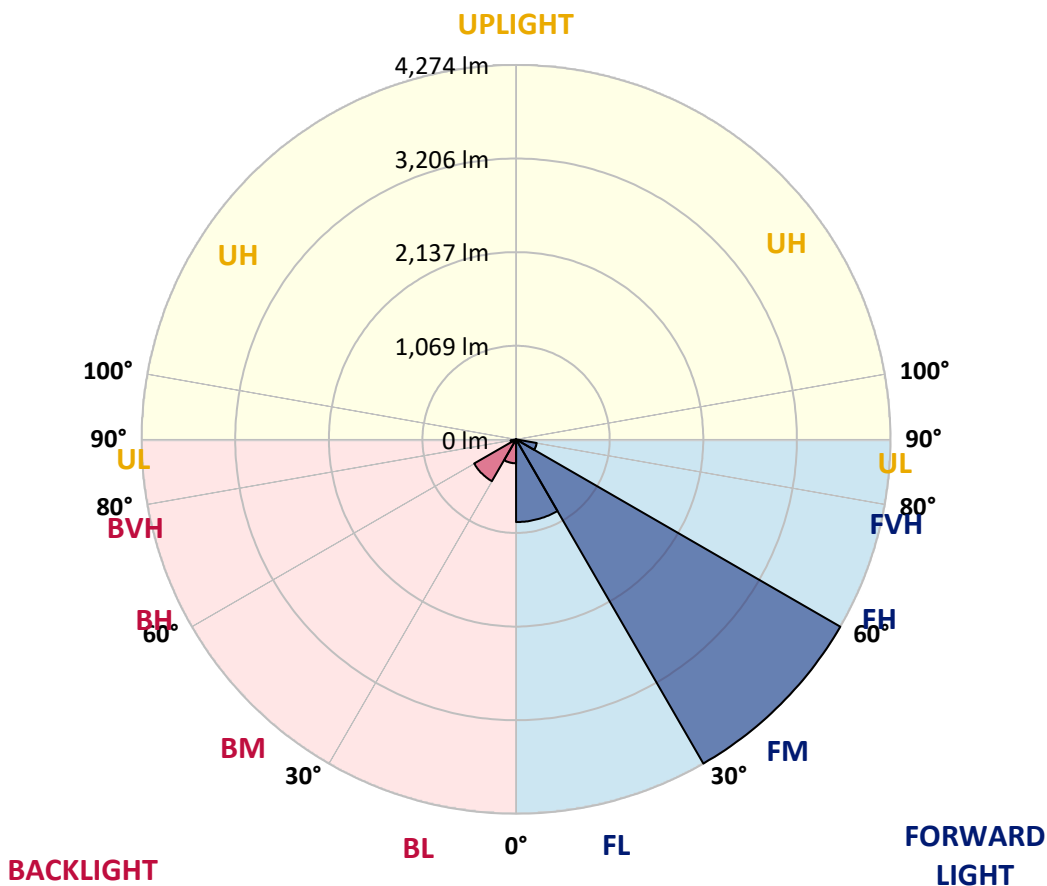
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 944.3  | 14.9      |                         |      |        |
| FM (30°-60°)   | 4274.1 | 67.3      |                         |      |        |
| FH (60°-80°)   | 239.1  | 3.8       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 273.7  | 4.3       | B1/500                  |      |        |
| BM (30°-60°)   | 552.0  | 8.7       | B1/1000                 |      |        |
| BH (60°-80°)   | 63.2   | 1.0       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  | 758.1  |
| 2.5°  | 1121.8 | 1104.2 | 1094.0 | 1085.9 | 1049.9 | 992.9  | 955.6  | 935.9  | 903.3  | 848.3  | 800.8  |
| 5°    | 1463.9 | 1451.0 | 1427.2 | 1410.9 | 1364.8 | 1284.0 | 1200.6 | 1167.3 | 1093.3 | 969.1  | 857.8  |
| 7.5°  | 1690.5 | 1681.0 | 1672.2 | 1650.5 | 1607.1 | 1533.8 | 1441.5 | 1406.9 | 1292.9 | 1116.4 | 933.8  |
| 10°   | 1865.0 | 1857.5 | 1847.3 | 1846.6 | 1812.7 | 1746.9 | 1656.6 | 1620.6 | 1497.1 | 1276.6 | 1023.4 |
| 12.5° | 2018.3 | 2012.2 | 2010.2 | 2029.2 | 2007.5 | 1958.6 | 1860.9 | 1816.1 | 1685.1 | 1440.1 | 1122.5 |
| 15°   | 2123.5 | 2122.2 | 2131.0 | 2168.3 | 2180.5 | 2158.1 | 2076.0 | 2027.8 | 1877.2 | 1604.4 | 1231.8 |
| 17.5° | 2171.7 | 2175.8 | 2192.8 | 2257.2 | 2311.5 | 2330.5 | 2267.4 | 2226.7 | 2067.9 | 1770.6 | 1348.5 |
| 20°   | 2253.8 | 2252.5 | 2262.7 | 2323.7 | 2390.3 | 2458.1 | 2439.1 | 2404.5 | 2260.6 | 1946.4 | 1478.1 |
| 22.5° | 2485.3 | 2465.6 | 2443.9 | 2453.4 | 2477.1 | 2556.5 | 2591.8 | 2574.2 | 2459.5 | 2126.9 | 1611.8 |
| 25°   | 2840.9 | 2820.5 | 2750.6 | 2682.8 | 2638.0 | 2673.9 | 2722.1 | 2730.9 | 2657.0 | 2312.2 | 1751.6 |
| 27.5° | 3218.2 | 3199.9 | 3121.2 | 3019.4 | 2891.1 | 2828.7 | 2864.6 | 2882.3 | 2851.1 | 2532.8 | 1900.3 |
| 30°   | 3571.8 | 3547.4 | 3461.2 | 3335.0 | 3186.3 | 3090.6 | 3049.9 | 3062.1 | 3080.5 | 2794.1 | 2074.7 |
| 32.5° | 3878.6 | 3860.2 | 3757.1 | 3624.1 | 3480.9 | 3381.1 | 3286.1 | 3306.4 | 3351.2 | 3113.7 | 2298.0 |
| 35°   | 4138.5 | 4129.0 | 4019.7 | 3887.4 | 3736.0 | 3685.1 | 3603.7 | 3607.8 | 3652.6 | 3499.9 | 2570.1 |
| 37.5° | 4364.5 | 4348.2 | 4249.1 | 4126.3 | 4006.1 | 3998.0 | 3975.6 | 3977.6 | 4000.7 | 3949.8 | 2883.0 |
| 40°   | 4507.0 | 4492.1 | 4421.5 | 4345.5 | 4260.0 | 4261.3 | 4377.4 | 4386.2 | 4359.7 | 4391.6 | 3213.5 |
| 42.5° | 4560.6 | 4549.8 | 4511.8 | 4512.4 | 4503.6 | 4543.6 | 4761.5 | 4777.8 | 4682.8 | 4738.4 | 3495.8 |
| 45°   | 4467.6 | 4462.9 | 4465.6 | 4563.3 | 4669.2 | 4792.7 | 5075.7 | 5104.2 | 4969.8 | 4968.5 | 3716.4 |
| 47.5° | 4167.7 | 4158.2 | 4237.6 | 4403.8 | 4648.8 | 4889.1 | 5265.7 | 5309.9 | 5170.7 | 5100.2 | 3854.8 |
| 50°   | 3579.9 | 3607.1 | 3732.6 | 3982.4 | 4355.0 | 4756.7 | 5263.7 | 5340.4 | 5178.2 | 5088.6 | 3831.7 |
| 52.5° | 2593.2 | 2587.7 | 2862.6 | 3206.0 | 3659.4 | 4333.3 | 4984.1 | 5096.1 | 4997.0 | 4975.3 | 3780.2 |
| 55°   | 1410.9 | 1460.5 | 1645.8 | 2100.5 | 2666.5 | 3531.8 | 4345.5 | 4589.8 | 4704.5 | 4933.9 | 3873.1 |
| 57.5° | 518.5  | 540.2  | 656.3  | 978.0  | 1411.6 | 2196.2 | 3319.3 | 3687.9 | 4042.1 | 4818.5 | 3857.5 |
| 60°   | 209.0  | 213.1  | 259.2  | 359.7  | 593.2  | 1117.8 | 1991.2 | 2318.3 | 2652.2 | 3688.5 | 2960.3 |
| 62.5° | 152.0  | 157.4  | 175.8  | 210.4  | 300.0  | 488.6  | 858.5  | 998.3  | 1091.3 | 1827.0 | 1458.4 |
| 65°   | 122.8  | 126.9  | 141.8  | 157.4  | 198.2  | 262.6  | 276.9  | 266.7  | 265.4  | 472.3  | 334.6  |
| 67.5° | 101.8  | 105.9  | 116.7  | 127.6  | 142.5  | 131.0  | 95.0   | 99.8   | 81.4   | 80.8   | 65.8   |
| 70°   | 74.7   | 79.4   | 90.3   | 101.8  | 85.5   | 35.3   | 55.0   | 81.4   | 61.8   | 51.6   | 50.2   |
| 72.5° | 56.3   | 59.7   | 69.9   | 66.5   | 25.1   | 13.6   | 36.6   | 59.0   | 47.5   | 38.0   | 37.3   |
| 75°   | 42.1   | 44.1   | 35.3   | 10.9   | 2.7    | 3.4    | 13.6   | 24.4   | 26.5   | 21.7   | 21.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 2.0    | 2.7    | 3.4    | 4.1    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 758.1  | 758.1  | 758.1 | 758.1 | 758.1 | 758.1 | 758.1 | 758.1 | 758.1 | 758.1 | 758.1 |
| 2.5°  | 773.7  | 745.2  | 704.5 | 670.5 | 644.7 | 619.6 | 600.6 | 581.6 | 580.9 | 571.4 | 569.4 |
| 5°    | 806.3  | 754.7  | 680.0 | 626.4 | 593.8 | 574.1 | 560.6 | 553.8 | 550.4 | 547.0 | 545.6 |
| 7.5°  | 853.1  | 779.1  | 675.9 | 618.9 | 591.8 | 578.9 | 569.4 | 565.3 | 563.3 | 560.6 | 559.9 |
| 10°   | 910.8  | 814.4  | 690.9 | 633.2 | 609.4 | 597.2 | 587.0 | 580.9 | 577.5 | 572.8 | 571.4 |
| 12.5° | 980.0  | 857.8  | 714.6 | 656.9 | 631.8 | 615.5 | 602.0 | 593.2 | 588.4 | 582.3 | 580.9 |
| 15°   | 1054.6 | 904.7  | 741.1 | 678.7 | 648.8 | 627.8 | 610.8 | 597.2 | 588.4 | 580.9 | 578.9 |
| 17.5° | 1132.0 | 952.2  | 764.9 | 693.6 | 656.9 | 631.8 | 607.4 | 589.1 | 578.2 | 568.7 | 566.0 |
| 20°   | 1218.9 | 1001.0 | 780.5 | 696.3 | 654.2 | 621.0 | 592.5 | 569.4 | 558.5 | 545.6 | 542.9 |
| 22.5° | 1309.8 | 1046.5 | 787.2 | 690.2 | 639.3 | 600.6 | 570.1 | 546.3 | 530.7 | 517.1 | 513.1 |
| 25°   | 1398.0 | 1087.2 | 783.9 | 673.2 | 616.9 | 572.1 | 540.9 | 516.5 | 499.5 | 485.9 | 482.5 |
| 27.5° | 1491.7 | 1121.2 | 771.6 | 648.1 | 586.4 | 540.9 | 511.0 | 490.0 | 474.4 | 459.5 | 456.1 |
| 30°   | 1596.9 | 1152.4 | 752.0 | 617.6 | 550.4 | 509.0 | 485.9 | 471.7 | 454.7 | 439.1 | 434.3 |
| 32.5° | 1723.8 | 1180.2 | 723.5 | 580.9 | 518.5 | 481.2 | 468.3 | 457.4 | 437.7 | 421.4 | 418.1 |
| 35°   | 1869.0 | 1203.3 | 687.5 | 542.9 | 487.3 | 463.5 | 460.8 | 446.6 | 420.8 | 401.8 | 397.7 |
| 37.5° | 2037.3 | 1225.7 | 644.7 | 505.6 | 464.2 | 455.4 | 456.1 | 431.6 | 400.4 | 377.3 | 374.6 |
| 40°   | 2218.5 | 1248.1 | 597.2 | 473.0 | 443.2 | 450.6 | 444.5 | 409.9 | 359.0 | 336.6 | 333.9 |
| 42.5° | 2407.2 | 1272.5 | 549.0 | 442.5 | 425.5 | 432.3 | 423.5 | 366.5 | 329.8 | 318.3 | 316.9 |
| 45°   | 2577.6 | 1301.7 | 496.8 | 411.9 | 407.9 | 405.8 | 390.9 | 331.9 | 316.3 | 308.1 | 307.4 |
| 47.5° | 2700.4 | 1296.9 | 441.1 | 382.8 | 388.9 | 382.1 | 336.6 | 315.6 | 302.7 | 291.8 | 289.1 |
| 50°   | 2678.0 | 1214.1 | 383.4 | 350.2 | 364.4 | 358.3 | 302.7 | 296.6 | 285.0 | 273.5 | 269.4 |
| 52.5° | 2621.0 | 1101.5 | 333.2 | 315.6 | 338.0 | 323.7 | 279.6 | 273.5 | 263.3 | 248.4 | 243.6 |
| 55°   | 2651.5 | 995.6  | 293.9 | 287.8 | 310.8 | 268.1 | 253.8 | 244.3 | 233.5 | 217.2 | 215.1 |
| 57.5° | 2553.1 | 812.4  | 236.2 | 240.2 | 274.9 | 228.7 | 222.6 | 207.7 | 189.3 | 178.5 | 177.1 |
| 60°   | 1767.2 | 436.4  | 147.9 | 152.7 | 198.8 | 192.1 | 199.5 | 186.0 | 163.6 | 153.4 | 151.3 |
| 62.5° | 811.7  | 175.1  | 80.8  | 77.4  | 104.5 | 130.3 | 171.0 | 169.7 | 141.8 | 125.6 | 124.2 |
| 65°   | 196.8  | 80.1   | 57.7  | 54.3  | 59.0  | 78.0  | 111.3 | 133.7 | 114.7 | 95.7  | 93.7  |
| 67.5° | 63.8   | 65.2   | 52.9  | 49.5  | 52.3  | 58.4  | 66.5  | 74.0  | 73.3  | 67.2  | 65.8  |
| 70°   | 50.9   | 59.0   | 48.9  | 44.8  | 44.8  | 46.8  | 44.8  | 36.0  | 31.2  | 33.9  | 35.3  |
| 72.5° | 38.0   | 44.8   | 38.7  | 34.6  | 33.3  | 32.6  | 27.8  | 20.4  | 14.3  | 12.9  | 12.2  |
| 75°   | 22.4   | 25.1   | 23.8  | 20.4  | 19.0  | 17.0  | 13.6  | 8.8   | 4.8   | 3.4   | 2.0   |
| 77.5° | 4.1    | 4.8    | 5.4   | 4.1   | 3.4   | 2.7   | 2.0   | 0.7   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0    | 0.7    | 0.7   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)